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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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09/713,888

11/16/2000

Tammy S. Dore

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05/22/2003

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EXAMINER

HOANG, THAI D

ART UNIT

PAPER NUMBER

2662

DATE MAILED: 05/22/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/713,888

Applicant(s)

DORE ET AL.

Examiner

Thai D Hoang

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 03 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on Application filed on 11/16/2000.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-37 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-37 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2&4. 6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 1, 2, 5, 29 and 34 are rejected under 35 U.S.C. 102(a) as being unpatentable over Culpepper et al, published at <http://www1.cs.columbia.edu/sip/drafts/draft-culpepper-sip-info-event-00.txt>.

Regarding claims 1 and 29, Culpepper discloses Session initiation Protocol (SIP) INFO method for communicating mid-call events in SIP sessions; see figure on page 2. Culpepper discloses that the method comprises the steps of:

a media gateway controller (MGC) at a receiving side receives a call request from another MGC at a transmitting side (receiving a call request, from a first media gateway controller (MGC) to a second media controller (MGC) over a network);

a SIP entity can request that the MGC enable detection of MG supported events and that the MGC pass on event notification from the MGC to the requesting SIP entity. The use of a Digit Map in the event request addresses DTMF accumulation and order of delivery issues; page 3, second paragraph and page 4, section 4 (requesting information from the first media gateway controller and receiving the information before establishing a bearer path over the network.)

Regarding claims 2, 5 and 34, Culpepper discloses on page 7, second paragraph that the use of a Package designator in the event request also helps reduce any ambiguity in which media source event detection and reporting is desired for. Therefore, it implies that the system adapts with a packet-based network (receiving the call comprises receiving the call over a packet-based network.)

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 9-12, 18-21, 24-25, 28, 35-36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Culpepper et al published at <http://www1.cs.columbia.edu/sip/drafts/draft-culpepper-sip-info-event-00.txt> in view of Choudhuri et al published at <http://www.alternic.org/drafts/drafts-c-d/draft-choudhuri-sip-info-digit-00.html>, hereafter referred to as Culpepper and Choudhuri respectively.

Regarding claims 9-11, 18-19, 28, 35-36, Culpepper discloses that the SIP INFO Method, for transporting DTMF digits between two SIP entities and for specifying digit collection to be performed by a SIP client is described in Choudhuri paper, which discloses a SIP INFO method for DTMF digit transport and collection; page 3, second paragraph. This method provides a SIP entity with significant control over digit collection and detail concerning the results of the collection. Furthermore, Choudhuri teaches that Using Session Initiation Protocol applications can establish and terminate multimedia

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sessions. Telephony applications that require mid session signaling can accomplish that task by using SIP INFO method; section 1.0. It would have been obvious to one of ordinary skill in the art at the time the invention was made to apply collection method disclosed by Choudhuri into Culpepper's system in order to control a call between a calling party and a called party by using DTMF signal.

Regarding claims 12 and 20, the system disclosed by Culpepper comprises a Media gateway connected with PSTN network; therefore, it inherently comprises an interface in order to connect to a packet-based network (a first interface coupled to a first network). In addition, Culpepper discloses that a Media gateway Controller (MGC) coupled to the media gateway for communicating with the PSTN system (a controller communicatively coupled to the first interface). The media gateway controller (MGC) at a receiving side in the system disclosed by Culpepper receives a call request from another MGC at a transmitting side (receive a call request from a media gateway controller over the packet based network). Culpepper discloses that the SIP INFO Method, for transporting DTMF digits between two SIP entities and for specifying digit collection to be performed by a SIP client is described in Choudhuri paper, which discloses a SIP INFO method for DTMF digit transport and collection; page 3, second paragraph. This method provides a SIP entity with significant control over digit collection and detail concerning the results of the collection. Furthermore, Choudhuri teaches that Using Session Initiation Protocol applications can establish and terminate multimedia sessions. Telephony applications that require mid session signaling can accomplish that task by using SIP INFO method; section 1.0. It would have been obvious to one of

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ordinary skill in the art at the time the invention was made to apply collection method disclosed by Choudhuri into Culpepper's system in order to control a call between a calling party and a called party by using DTMF signal.

Regarding claim 21, Culpepper discloses that the SIP BCP-T addresses inter MGC (also known as a Softswitch) communication using SIP and describes the use of the SIP INFO method for carrying mid-session signaling messages. In addition, mid-call events, including DTMF signaling, that are detectable by a gateway. Furthermore, Culpepper describes the use of the SIP INFO method, for requesting and reporting events along the SIP signaling path abstract, introduction, page 2 section 2. Therefore, it implies that the first network is a Signaling System network.

Regarding claim 24, Culpepper discloses on page 7, second paragraph that the use of a Package designator in the event request also helps reduce any ambiguity in which media source event detection and reporting is desired for. Therefore, it implies that the system adapts with a packet-based network (receiving the call comprises receiving the call over a packet-based network.)

Regarding claim 25, Culpepper discloses in figure on page 2 that a Media gateway controller collects the digits from the media gateway over MGCP, a media gateway controller protocol, a simple gateway controller protocol, and an Internet protocol device control; see section 1 and 2, pages 1-3.

Claims 13 and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Culpepper et al published at <http://www1.cs.columbia.edu/sip/drafts/draft-culpepper-sip-info-event-00.txt> in view of Choudhuri et al published at

<http://www.alternic.org/drafts/drafts-c-d/draft-choudhuri-sip-info-digit-00.html>, and further in view of Media Gateway Control Protocol (MGCP) version 1.0., hereafter referred to as Culpepper, Choudhuri and MGCP respectively.

Regarding claims 13 and 23, Culpepper does not explicitly disclose that the call is received over an ATM Network. However, the MGCP states protocol for adapting the MGC to an ATM network. It would have been obvious to one of ordinary skill in the art at the time the invention was made to apply MGCP to MGC for economic reason because it adapts with conventional ATM communication systems used in the network.

Claims 3 and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Culpepper et al published at <http://www1.cs.columbia.edu/sip/drafts/draft-culpepper-sip-info-event-00.txt> in view of Media Gateway Control Protocol (MGCP) version 1.0, hereafter referred to as Culpepper and MGCP respectively.

Regarding claims 3 and 30, Culpepper does not explicitly disclose that the call is received over an ATM Network. However, the MGCP states protocol for adapting the MGC to an ATM network. It would have been obvious to one of ordinary skill in the art at the time the invention was made to apply MGCP to MGC for economic reason because it adapts with conventional ATM communication systems used in the network.

Claims 4, 6-8, 14-17, 22 and 26-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Culpepper et al published at <http://www1.cs.columbia.edu/sip/drafts/draft-culpepper-sip-info-event-00.txt> in view of Choudhuri et al published at <http://www.alternic.org/drafts/drafts-c-d/draft-choudhuri-sip->

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[info-digit-00.html](#) , Media Gateway Control Protocol (MGCP) version 1.0, and further in view of Bearer Independent Call Protocol (BICP) ITU Recommendation Q.1901.

Regarding claims 4, 6-8, 14, 16-17, 22 and 26-27 Culpepper discloses that the system is adapted to receive the call request in SIP-T message, see figure on page 2. Culpepper does not disclose the call request comprises a BICC IAM message. However, the BICP of ITU Recommendation Q.1901 teaches this feature. It would have been obvious to one of ordinary skill in the art at the time the invention was made to apply MGCP to MGC for the same purpose as recited in claim 3.

Regarding claim 15, Culpepper discloses on pages 2 and 7, second paragraph that the use of a Package designator in the event request also helps reduce any ambiguity in which media source event detection and reporting is desired for. Therefore, it implies that the system adapts with a packet-based network for requesting digits from the media gateway (the controller is further adapted to request the at least one digit from the media gateway controller over the packet-based network.)

Claims 31-33 and 37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Culpepper et al published at <http://www1.cs.columbia.edu/sip/drafts/draft-culpepper-sip-info-event-00.txt> in view of Bearer Independent Call Protocol (BICP) ITU Recommendation Q.1901, hereafter referred to as Culpepper and BICP respectively.

Regarding claims 31-33 Culpepper discloses that the system is adapted to receive the call request in SIP-T message, see figure on page 2. Culpepper does not disclose the call request comprises a BICC IAM message. However, the BICP of ITU

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Recommendation Q.1901 teaches this feature. It would have been obvious to one of ordinary skill in the art at the time the invention was made to apply MGCP to MGC for the same purpose as recited in claim 3.

Regarding claim 37, Culpepper discloses that the media gateway controller (MGC) at a receiving side in the system disclosed by Culpepper receives a call request from another MGC at a transmitting side (receive a call request from a media gateway controller over the packet based network). Furthermore, Culpepper discloses that the system receives SIP-T message from the MGC before establishing a voice path over a packet based network. Culpepper does not disclose that the system receives BICC message from the MGC. However, the BICP of ITU Recommendation Q.1901 teaches this feature. It would have been obvious to one of ordinary skill in the art at the time the invention was made to apply MGCP to MGC for the same purpose as recited in claim 3.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The following publications are cited to further show the state of the art with respect to the application:

Girard D. G. and Hoffpauir S. "SIP-Telephony Service Interface Overview",
<http://www1.cs.columbia.edu/sip/drafts/SIP-TS11.0.doc>.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thai D Hoang whose telephone number is (703) 305-3232. The examiner can normally be reached on Monday-Friday 8:30am-5:00pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hassan Kizou can be reached on (703) 305-4744. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9314 for regular communications and (703) 872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-4700.

Thai Hoang
May 18, 2003

KWANG BIN YAO
PRIMARY EXAMINER
